

P.B.5818 - Patentlaan 2
2280 HV Rijswijk (ZH)
+31 70 340 2040
T 31651 epo nl
FAX +31 70 340 3016

Europäisches
Patentamt

Zweigstelle
in Den Haag
Recherchen-
abteilung

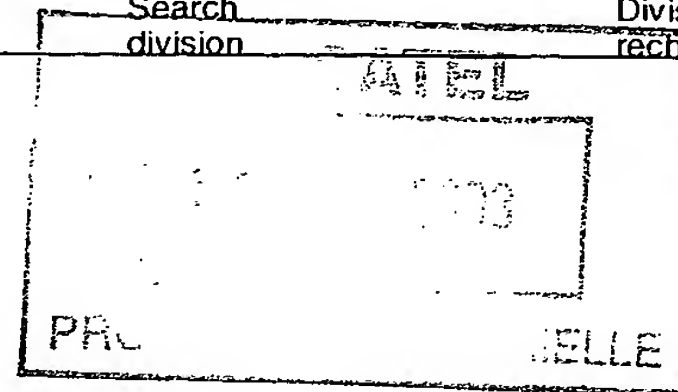
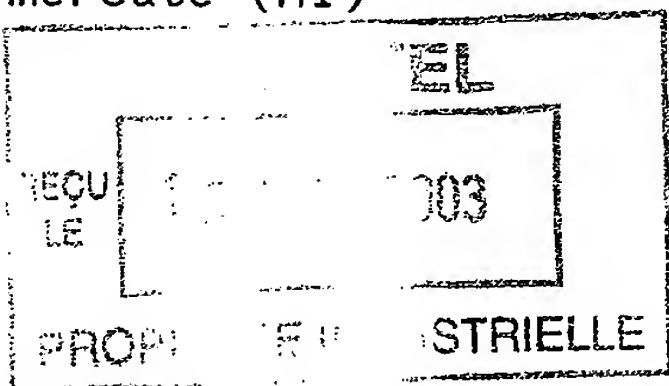
European
Patent Office

Branch at
The Hague
Search
division

Office européen
des brevets

Département à
La Haye
Division de la
recherche

Colombo, Stefano Paolo
Alcatel,
Intellectual Property Department, Vimercate
Via Trento, 30
20059 Vimercate (MI)
ITALIE



Datum/Date

30.12.02

Zeichen/Ref./Réf. 131231	Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°. 02291858.5-2220-
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire ALCATEL	

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☐ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☒ abstract

☐ title

☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 8

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 4 780 693 A (ELLIOTT JOSEPH A ET AL) 25 October 1988 (1988-10-25) * abstract; figure 1 * * column 3, line 5 - line 34 * ---	1-11	H01P1/213 H03H7/46
A	US 4 688 259 A (EDRIDGE MICHAEL J) 18 August 1987 (1987-08-18) * abstract; figure 4 * ---	1-11	
P,A	US 6 472 951 B1 (FIEDZIUSZKO S JERRY ET AL) 29 October 2002 (2002-10-29) * column 2, line 25 - column 3, line 35; figure 1 * ---	1-11	
A	US 5 235 297 A (TAWIL SALEEM) 10 August 1993 (1993-08-10) * abstract; figures 3,4 * * column 6, line 57 - column 7, line 17 * -----	1-11	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01P H03H
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 17 December 2002	Examiner Saur, E
<div>CATEGORY OF CITED DOCUMENTS</div> <div><div>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</div><div>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document</div></div>			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 29 1858

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

17-12-2002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4780693	A	25-10-1988	CA 1278115 A1 18-12-1990 DE 3786458 D1 12-08-1993 DE 3786458 T2 17-02-1994 EP 0293019 A1 07-12-1988 JP 1501750 T 15-06-1989 WO 8803711 A1 19-05-1988
US 4688259	A	18-08-1987	NONE
US 6472951	B1	29-10-2002	FR 2805087 A1 17-08-2001 JP 2001251103 A 14-09-2001
US 5235297	A	10-08-1993	NONE